

Amendments to the Claims

Claim 1 (Currently amended): ~~A canola seed designated Seed of canola variety 45A55,~~ representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 2 (Original): A canola plant, or parts thereof, produced by growing the seed of claim 1.

Claims 3-42 (Canceled)

Claim 43 (Currently amended): The canola plant part of claim 2, wherein said part is pollen.

Claim 44 (Currently amended): The canola plant part of claim 2, wherein said part is an ovule.

Claim 45 (Currently amended): A tissue culture of ~~protoplasts or~~ regenerable cells from the plant of claim 2.

Claim 46 (Currently amended): A tissue culture according to claim 45, wherein the cells or protoplasts of the tissue culture being of are from a tissue selected from the group consisting of[[[:]]] leaf, pollen, cotyledon, hypocotyl, ~~embryos~~embryo, root, pod, flower, shoot and stalk.

Claim 47 (Currently amended): A canola plant regenerated from the tissue culture of claim 45, havingwherein the plant has all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 48 (Currently amended): A method for producing a first generation hybrid canola seed comprisingwherein the method comprises: crossing the plant of claim 2 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 49 (Currently amended): The method of claim 48 for producing a first generation hybrid canola seed, wherein the female parent is designated 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 50 (Currently amended): The method of claim 48 for producing a first generation hybrid canola seed, wherein the male parent is designated 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 51 (Previously presented): A canola plant, or parts thereof, having all the physiological and morphological characteristics of the plant of claim 2.

Claim 52 (Currently amended): The canola plant part of claim 51, wherein said part is pollen.

Claim 53 (Currently amended): The canola plant part of claim 51, wherein said part is an ovule.

Claim 54 (Currently amended): A tissue culture of ~~protoplasts~~ or regenerable cells from the plant of claim 51.

Claim 55 (Currently amended): A tissue culture according to claim 54, wherein the cells or protoplasts of the tissue culture ~~being of~~ are from a tissue selected from the group consisting of[[;]] leaf, pollen, cotyledon, hypocotyl, embryo~~embryo~~, root, pod, flower, shoot and stalk.

Claim 56 (Currently amended): A canola plant regenerated from the tissue culture of claim 51, having wherein the plant has all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 57 (Currently amended): A method for producing a first generation hybrid canola

seed comprising wherein the method comprises:
crossing the plant of claim 51 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 58 (Currently amended): The method of claim 57 for producing a first generation hybrid canola seed, wherein the different inbred canola plant seed of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 is a the female parent.

Claim 59 (Currently amended): The method of claim 57 for producing a first generation hybrid canola seed, wherein the different inbred canola plant seed of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 is a the male parent.

Claim 60 (Currently amended): A method for producing a first generation (F1) canola variety progeny canola plant, comprising wherein the method comprises:

- (a) crossing canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 with a second canola plant to yield progeny canola seed; and
- (b) growing said progeny canola seed, under plant growth conditions, to yield said first generation (F1) canola variety 45A55 progeny canola plant.

Claim 61 (Currently amended): A method for producing a male sterile canola line comprising wherein the method comprises:

crossing the canola plant of claim 2 with a second canola plant to yield progeny canola seed, wherein the second canola plant is the female parent and has cytoplasmic male sterility; and growing said progeny canola seed to yield an F1 male sterile canola plant.

Claim 62 (New): Protoplasts produced from the tissue culture of claim 45.

Claim 63 (New): Protoplasts produced from the tissue culture of claim 54.

Claim 64 (New): A method for producing a male sterile canola line
wherein the method comprises:

crossing the canola plant of claim 2 with a second canola plant to yield progeny canola seed,
wherein the second canola plant has nuclear male sterility; and
growing said progeny canola seed to yield an F1 male sterile canola plant.